



1/15

Datenbank-Nr. Name	Vergleich Endometriose		Vergleich Endometriose	
	Versus Normal (sekr. Phase)	Versus Normal (prol. Phase)	Versus Normal (prol. Phase)	Versus proli. Phase (Endometrium)
X02761, fibronectin (FN precursor)	down (0 up - 16 down)	down (4 up -12 down)	up (18 up - 1 down)	
S37730, insulin-like growth factor binding protein-2	down (1-15)	nc (13-13)	up (17-2)	
U40271, Human transmembrane receptor precursor (PTK7)	down (0-14)	nc (6-2)	up (9-1)	
M21574, platelet-derived growth factor receptor alpha (PDGFRA)	down (0-13)	nc (8-10)	up (17-0)	
L22548, collagen type XVIII alpha 1 (COL18A1)	down (0-13)	down (0-8)	up (17-0)	
M80482, subtilisin-like protein (PACE4)	down (1-13)	down (4-13)	up (22-2)	
Z26653, laminin M chain (merosin)	down (1-13)	nc (9-10)	up (17-1)	
M36860, U77846, Elastin	down (0-12)	nc (0-0)	up (25-0)	
X05610, type IV collagen alpha -2 chain	down (0-12)	nc (3-3)	up (11-0)	
X67325, p27 interferon alpha-inducible gene	down (1-12)	nc (9-10)	up (10-2)	

Abbildung 1

Figure 1

[Key to Table:]

Datenbank-Nr., Name = Data Bank No., Name
Vergleich Endometriose versus Normal (sekr. Phase) = Comparison
of Endometriosis versus Normal (Secr. Phase)
Vergleich Endometriose versus Normal (prol. Phase) = Comparison
of Endometriosis versus Normal (Prol. Phase)
Vergleich sekr. versus prol. Phase (Endometrium) = Comparison
of Secr. versus Prol. Phase (Endometrium)

Figure 1

[Key to Table:]

Datenbank-Nr., Name = Data Bank No., Name
Vergleich Endometriose versus Normal (sekr. Phase) = Comparison
of Endometriosis versus Normal (Secr. Phase)
Vergleich Endometriose versus Normal (prol. Phase) = Comparison
of Endometriosis versus Normal (Prol. Phase)
Vergleich sekr. versus prol. Phase (Endometrium) = Comparison
of Secr. versus Prol. Phase (Endometrium)

Datenbank-Nr., Name	Vergleich Endometriose versus Normal (sekr. Phase)	Vergleich Endometriose versus Normal (prol. Phase)	Vergleich sekr. versus prol. Phase (Endometrium)
D42073, reticulocalbin	down (0-11)	nc (8-5)	up (11-2)
U07919, aldehyde dehydrogenase 6	down (1-11)	nc (13-9)	up (22-0)
U81607, gravin	down (1-11)	nc (8-7)	up (18-1)
M30269, nidogen	down (0-10)	nc (8-14)	up (15-3)
D42108, phospholipase C Epsilon	down (1-10)	nc (12-14)	up (25-0)

Abbildung 1

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
1	Fibronektin	MLRGPGPGLL LLAQCGLTA VPSTGASKSK RQAQMVPQ SPVAVSQSKP GCYDNGKHYY INQWERTYL GNALVCTCYG GSRGNCESK PEAETCFDK YTGNTYRVGD TYERP KDSMI WDCTCIGAGR GRISCTIANR CHEGGQSYKI GDTWRRPHET GGYMLECVCL GNKGWETCK PIAEKCFDHA AGTSYVVGET WEKPYQGMM VDCTCLGEGS GRITCTSRNR CNDQDTRTSY RIGDTWSKKD NRGNLLQCIC TGNGRGENKC ERHTSVQTTT SGSGPFTDVR AAVYQPPHP QPPPYGHCVT DSGVYVSGM QWLKTQGNKQ MLCTCLGNV SCQETAVTQT YGGNSNGEPC VLPFTYNGRT FYSCCTEGRQ DGHLCSTTS NYEQDQKYSF CTDHTVLVQT QGGNSNGALC HFPFLYNNHN YTDCTSEGR DNKWCCTTQ NYDADQKFGF CPMAAHEEIC TTNEGVMYRI GDQWDKQHDM GHMMRCTCVG NRGWETCIA YSQLRDQCIY DDITYNVNDT FHKRHEEGHM LNCTCFGQGR GRWKCDPVDQ CODSETGTFY QIGDSWEKYV HGVRYQCYCY GRGIGEWHCQ PLQTYPSSSG PVEVFITETP SQPNSHPIQW NAPQPSHISK YILRRPKNS VGRWKEATIP GHLSYTIKG LKPGVVYEGQ LISIQYGHQ EVTRFDFTTT STSTPVTSTNT VTGETTFFSP LVATSESVTE ITASSFVSVW VSASDTVSGF RVEYELSEEG DEPYLDLPS TATSVNIPDL LPRKYIVNV YQISEDGEQS LILSTSQTTA PDAPPDPTVD QVDDTSIVVR WSRPQAPITG YRIVYSPSVE GSSTELNLE TANSVTLSDL QPGVQYNITI YAVEENQEST PVVIQQETTG TPRS DTVPS RDLQFVEVTD VKVTIMWTPP ESAVTGYRVD VIPVNLPEH GQRLPISRNT FAEVTGLSPG VTYVFKVFAV SHGRESKPLT AQQTKLDAP TNLQFVNETD STVLVRWTPP RAQITGYRLT VGLTRRGQPR QYNVGPSPVSK YPLRNLPAS EYTVSLVAIK GNQESPKATG VFTTLQPGSS IPPYNTEVTE TTIVITWTPA PRIGFKLGVR PSQGEAPRE VTSDSGSIVV SGLTPGVEYV YTIQVLRDQ ERDAPIVNKV VTPLSPPTNL HLEANPDGTG LTVSWERSTT PDITGYRITT TPTNGQQGNS LEEVVHADQS SCTFDNLSPG LEYNVSVYTV KDDKESVPIS DTIIPAVPPP TDLRFTNIGP DTMRTWAPP PSIDLTNFLV RYSPVKNEED VAELSISPSD NAVVLTNLLP GTEYVSVSS VYEQHESTPL RGRQKTGLDS PTGIDFSDIT ANSFTVHWIA PRATITGYRI RHHPEHFSGR PREDRVPHSR NSITLTNLTP GTEVAVSIVA LNGREESPLL IGQOSTVSDV PRDLEVVAAT PTSLLISWDA

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence
Fibronektin = fibronectin

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
		PAVTVRYRI TYGETGNSP VQFTVPGSK STATISGLKP GVDYTTITVYA VTGRGDSPAS SKPISINYRT EIDKPSQMQR TDVQDNSISV KWLPSSSPVT GYRVTTTPKN GPGPTTKTKTA GPDQTEMTIE GLQPTVEYVV SVYAQNPSGE SQPLVQTAVT NIDRPKGLAF TDVDVDSIKI AWESPQGQVS RYRVITYSSPE DGIHELFPAP DGEEDTAELQ GLRPGSEYTV SVVALHDDME SQPLIGTQST AIPAPTDLKF TQVTPPTSLSA QWTPPNVQLT GYRVRVTPKE KTGPMKEINL APDSSSVVVS GLMVATKYEV SVYALKDTLT SRPAQGVVVT LENVSPPRRA RVTDATETTI TISWRKTET ITGFQVDVAVP ANGQTPIQRT IKPDVRSYTI TGLQPGTDYK IYLYTLNDNA RSSPVVIDAS TAIDAPSNLR FLATTPNSLL VSWQPPRARI TGYIIKYEKP GSPPREVVPR PRPGVTEATI TGLEPGTEYT IYVIALKMNQ KSEPLIGRKK TDELPQLVTL PHPNLHGPEI LDVPSTVQKT PFVTHPGYDT GNGIQLPGTS GQQPSVGQOM IFEEHGFRRRT TPPTTATPIR HRPRPYPPNV GEEIQIGHIP REDVDYHLYP HGPGLNPNAS TGQEALSQTT ISWAPFQDTS EYIISCHPVG TDEEPLQFRV PGTSTSATLT GLTRGATYNI IVEALKDQOR HKVREEVVTV GNSVNEGLNQ PTDDSCFDPY TVSHYAVGDE WERMSESGFK LLCQCCLGFGS GHFRCDSSRW CHDNGVNYKI GEKWDROGEN GQMMSCCLG NGKGEFKCDP HEATCYDDGK TYHVGEQWQK EYLGAICSCT CFGGQRGWRC DNCRRPGGEP SPEGTTGQSY NQYSQRYHOR TNTNVNCPIE CFMPLDVQAD REDSRE
2	Insulin-like growth factor binding protein-2	MLPRVGCPL PLPPPPLPL LPLLLLLLGA SGGGGGARAE VLFRCPPTTP ERLAACGPPP VAPPAVAAV AGGARMPCAE LVREPGCGCC SVCARLEGEA CGVYTPRCGQ GLRCYPHPGS ELPLQALVMG EGTCEKRRDA EYGASPEQVA DNGDDHSEGG LVENHVDSTM NMLGGGSAG RKPLKSGMKE LAVFREKYTE QHRQMGKGGK HHLGLEEPPK LRPPPARTPC QEELDQVLER ISTMRLPDER GPLEHLYSLH IPNCDKHGGLY NLKQCKMSLN GQRGECWCVN PNTGKLIQGA PTIRGDPCH LFYNEQQEAR GVHTQRMQ

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
3	Transmembrane receptor PTK7	<p>MGAARGSPAR PRRLLLSVL LPLLLGGTQT AIVFIKQPS QDALQRRAL LRCEVEAPGP VHVYWLDDGA</p> <p>PVQDTERRPA QGSSLSFAAV DPLQDSGTFQ CVARDDVTGE EARSANASFN IKWIEAGPVV LKHPASEAEI</p> <p>QPQTQVKLRC HIDGHPRTY QWFRDGTPLS DGQSNHTVSS KERNLTLRPA GPEHSGLYSC CAHSAFSQAC</p> <p>SSQNFSLIA DESFARVVLA PQDVVVARYE EAMFHCQPSA QPPPSLQWLF EDETPITNRS RPPHLRRATV</p> <p>FANGSLLLTQ VRPRNAGIYR CIGQGQGGPP IILEATLHLA EIEDMPLFEP RVFTAGSEER VTCLPPKGLP</p> <p>EPSVWWEHAG VRLPTHGRVY QKGHELVLAN IAESDAGVYT CHAANLAGQR RQDVNITVAT VPSWLKKPQD</p> <p>SQLEEGKPGY LDCLTQATPK PTVVVYRNQM LISEDSRFEV FKNGTLRINS VEVYDGTWYR CMSSTPAGSI</p> <p>EAQAVLQVLE KLKFTPPPPQ QQCMGFDKEA TVPCSATGRE KPTIKWERAD GSSLPEWVTD NAGTLHFARV</p> <p>TRDDAGNYTC IASNGPQGI RAHVQLTVAV FITFKVEPER TTVYQCHTAL LQCEAQGDPK PLIQWKGKDR</p> <p>ILDPTKLGPR MHIFQNGSLV IHDVAPEDSG RYTCIAGNSC NIKHTEAPLY VVDKPVPEES EPGSGPPPYK</p> <p>MIQTIGLSVG AAVAYIIAVL GLMFYCKKRC KAKRLQKQPE GEEPEMECLN GGPLQNGQPS AEIQEEVALT</p> <p>SLGSGPAATN KRHSTSDKMH FPRSSLQPI TIGKSEFGEV FLAKAQGLEE GVAETLVLVK SLQSKDEQQQ</p> <p>LDFFRRELEMF GKLNHANVVR LGLCREAEP HYMVLEYVDL EDLKQFLRIS KSKDEKLKSQ PLSTKQKVAL</p> <p>CTQVALGMEH LSNRFRVHKD LAARNCLVSA QRQVKVSALG LSKDVYNSEY YHFRQAWVAL RWMSPEAILE</p> <p>GDFSTKSDVW ASGVLWWEVF THGEMPHGGQ ADDEVLDLQ AGKARLPQPE GCPSKLYRLM QRCWALS PKD</p> <p>RPSFSEIASA LGDSTVDSKP</p>
4	Platelet-derived growth factor receptor alpha	<p>MGTSHPAFLV LGCLLTGLSL ILCQLSLPSI LPNENEKVQ LNSSFSLRCF GESEVSWQYP MSEEESDVE</p> <p>IRNEENNNSGL FVTVLEVSSA SAAHTQLYTC YYNHTQTEEN ELEGRHIYIY VPDPDVAFVP LGMTDYLIV</p> <p>EDDDSAIIPC RTTDPETPVT LHNSEGVVPA SYDSRQGFNG TFTVGPYICE ATVKGKKFQT IPFNVYALKA</p>

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
		TSELDLEMEA LKTVYKSGET IVVTCVAVFNN EVVDLQWTYP GEVKGKGITM LEEIKVPSIK LVYTLTVPEA TVKDSGDYEC AARQATREVK EMKKVTISVH EKGFIKPT FSOLEAVNLH EVKHFVVEVR AYPPPRISWL KNNLTLIENL TEITTDVEKI QEIRYRSKLK LIRAKEEDSG HYTIVAQNEA AVKSYTFELL TQVPSSILDL VDDHHGSTGG QTVRCTAEGT PLPDIEMMIC KDIKKCNNET SWTILANNVS NIITEIHSRD RSTVEGRVTF AKVEETIAVR CLAKNLLGAE NRELKLVAPT LRSELTVAAG VLVLVIVVII SLIVLVVINK QKPRYEIRWR VIESISPDGH EYIYVDPMQL PYDSRWEPFR DGLVLGRVLG SGAFGKVVEG TAYGLSRSQP VMKVAVKMLK PTARSSEKQA LMSELKIMTH LGPHLNIVNL LGACTKSGPI YIITEYCFYG DLVNYLHKNR DSFLSHHPEK PKKELDIFGL NPADESTRSY VILSFENNGD YMDMKQADTT QYVPMLEKE VSKYSIDIORS LYDRPASYYK KSMLDSEVKN LLSDDNSEGL TLLDLLSFTY QVARGMEFLA SKNCVHRDLA ARNVLLAQGK IVKICDFGLA RDMHDSNYV SKGSTFLPVK NMAPESIFDN LYTTLSDVMS YGILLWEIFS LGTTPYPGMM VDSTFFYNKIK SGYRMAKPDH ATSEVYEIMV KCMNSEPEKR PSFYHLSEIV ENLLPGQYKK SYEKIHLDFL KSDHPAVARMVSDNAYIG VTYKNEEDKL KDWEGLDEQ RLSADSGYII PLPDIDPVPE EEDLGKRNRRH SSQTSEESAI ETGSSSSTFI KREDETIEDI DMDDIGIDS SDLVEDSFL
5	Collagen XVIII alpha 1 type	GEVGADGIPG FPGLPGREGI AGPQPKGDR GSRGEKGDPG KDGLGQPLP GPRGPPGPV YVSEQDGSVL SVPGPEGRRG FAGPPGPAGP KGNLGSKGEL GSPGPKGEG EPGSIFSPDG GALGPAQKGA KGEPPGRGPP GLYGRPGYKG EIGFPGRPRG PGMNGLKGEK GEPGDASLGF GMRGMPGPPG PPGPPGPPCT PVYDSNVFAE SSRPGPPGLP GNQPPPGPKG PKGEVGPFGP PGQFPFDFLQ KEAEMKGEK DRGDAGQKGE RGEPPGGGFF GSSLPGAPGA PGPRGYPGIP GPKGESIRGQ PGPPGPPGPP GIGYEGRQGP PGPPGPPGPP SFPGPHRQTI SVPGPPGPPG PPGPPGTGMA SSGQVRLNAT RQAMLGQVHE VPEGWLIIVA EQEELYVRVQ NGFRKVQLEA RTPLPRGTDN EVAALQPPV QLHRSNYPYR REHPHTARP WRADDILASP PGLPEPQYP GSPHSSYVH CGPARPTSPP AHSRDFQPV LHLVALNSPL SGMRGIRGA DFQCFQQAARA VGLAGTFRF LSSRLQDLYS

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
6	Subtilisin-like protein (PACE4)	IVRRADRAAV PIVNLKDELL FPSWEALFSG SEGPLKPGAR IFSFDGKDVLRHPTWPQKSV WHGSDPNQRRR LTESYCEWTR TEAPSATGQA SSLIGGRLLG QSAASCHHAY IVLCIENSFPM TASK
		MPPRAPAPG PRPPPRAAAA TDTAAGAGGA GGAGGAGGPG FRPLAPRPWR WLLLLALPAA CSAPPPRPVY TNHWAVQVLG GPAEADRVAA AHGYLNLGQI GNLEDYYHFY HSKTFKRSTL SSRGPHTFLR MDPQVKWLQQ QEVKRRVKRQ VRSDPQALYF NDPIWSNMWY LHCGDKNSRC RSEMNVAQAAW KRGYTGKNVV VTILDDGIER NHPDLAPNYD SYASYDVNGN DYDPSPRYDA SNENKHGTRC AGEVAASANN SYCIVGIAYN AKIGGIRMLD GDVTDVVEAK SLGIRPNYID IYSASWGPDD DGKTVDPGPR LAKQAFEFYGI KKGRQGLGSI FVWASGNGGR EGDYCSCDGY TNSIYTTISVS SATENGYKWP YLEECASSTLA TTYSSGAFYE RKIVTTDLRQ RCTDGHGTGTS VSAPMVAGII ALALEANSQI TWRDVQHLLV KTSRPAHLKA SDWKVNGAGH KVSHFYGFGL VDAEALVVEA KKWTAVPSQH MCVAASDKRP RSIPLVQVLR TTALTSACAE HSDQRVVVYLE HVVVRTSISH PRRGDLQIYL VSPSGTKSQL LAKRLDLLSN EGFTNWEFMT VHCWGEKAEG QWTLIEIQDLP SQVRNPEKQG KLKEWSLILY GTAHPYHTF SAHQSRSRML ELSAPELEPP KAALSPSQVE VPEDDEEYTA QSTPGSANIL QTSVCHPECG DKGCDGPNAD QCLNCVHFSL GSVKTSRKCVC SVCPLGYFGD TAARRCRRCH KGCETCSSRA ATQCLSCRRG FYHHQEMNTC VTLCPPAGFYA DESQKNCLKC HPSCKKCVDE PEKCTVCKEG FSLARGSCIP DCEPGTYFDS ELIRCGECHH TCGTCVGPGR EECIHCAKNF HFHDWKCVPA CGEGFYPEEM PGLPHKVCRR CDENCLSCAG SSRNCNRCKT GFTQLGTSCI TNHTCSNADE TFCMVKSNR LCERKLFIOF CCRTCLLAG
7	Laminin M chain (Merodin)	MPGAAGVLLL LLLSGGLGGV QAQRPPQQRQ SQAHQQRGLF PAVNLASNA LITTNATCGE KGPEMYCKLV EHVPGQPVNR PQCRICNQNS SNPNQRHPIT NAIDGKNTWW QSPSIKNGIE YHYVTITLTL QQVFQIAYVI VKAANSRPPG NWILERSLDD VEYKPPQYHA VTDTECLTLY NIYPRTGPPS YAKDDEVICT SFYSKIHPLE NGEIHISLIN GRPSADDPSP ELLEFTSARY IRLRFQIRIT LNADLMMFAH KDPREIDPIV TRRYYYYSVKD ISVGGMCICY GHARACPLDP ATNKSRCCE HNTCGDSCDQ CCPGFHQKPW RAGTFLTKTE CEACNCHGKA

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
		EECYDENVA RRNLSLNIRG KYIGGGVCIN CTQNTAGINC ETCTDGFRRP KGVSPNYPRP CQPCHCDPIG SLNEVCVKDE KHARRGLAPG SCHCKTGFGG VSCDRCARGY TGYPDCACN CSGLSKNEP PCFGPCICKE NVEGGDCSRC KSGFFNLQED NWKCDECFC SGVSNRCQSS YWTYGKIQDM SGWYLTDLPG RIRVAPQDD LDSPQQISIS NAEARQALPH SYWASAPAPY LGNKLPVGG QLTFTISYDL EEEEEETERV LQLMIILEG DLSISTAQDE VYLHPSEHT NVLLKKEESF TIHGTHFPVR RKEFMTVLAN LKRVLLQITY SFGMDAIFRL SSVNLESAVS YPTDGSIAAA VEVQCQPPGY TGSSCESCW PRRRVNGTIF GGICEPCQCF GHAESEDDVT GECINCKDHT GGPYCDKCLP GFYGEPTKGT SEDCQPCACP LNIPSNFSP TCHLDRSLGL ICDGCPVGYT GPRCERCAEG YFGQPSVPGG SCQPCQCNDN LDFSIPGSCD SLGSCSLICK PGTTGRYCEL CADGYFGDAV DAKNCQPCRC NAGGSFSEVC HSQTGQCECR ANVQQRCDK CKAGTFGLQS ARGCVPCNCN SFGSKSFDCE ESGQCWCQPG VTGKKCDRCA HGYFNFQEGG CTACECSHLG NNCDPKTGRG ICPPNTIGEK CSKCAPNTWG HSITTGCKAC NCSTVGSDF QCNVNTGQCH CHPKFSGAKC TECSRGHWNV PRNLCDCFL PGTDATTCD ETKKKCSDDQ TGQCTCKNVV EGIHCDRCRP GKFGLDKNP LGSSCYCFG TTTQCSEAKG LIRTVVTLKA EQTILPLVDE ALQHTTTKGI VFQHPDIVAH MDLMREDLHL EPFYWKLPEQ FEGKLMAYG GKLKAIYFE AREETGFSTY NPQVIIRGGT PTHARIIVRH MAAPLIGQLT RHEIEMTEKE WKYYGDDPRV HRTVTRDPL DILYDIHYIL IKATYGNFMR QSRISEISME VAEQGRGTM TPPADLIEK DCPLGYSGLS CEACLPGFYR LRSQPGGRTP GPTLGTVCPC QCNHSSSLCD PETSICQNCQ HHTAGDFCER CALGYYGIVK GLPNDCCQCA CPLISSNNF SPSCVAEGLD DYRCTACPRG YEGQYCERCA PGYTGSPGNP GGSCQCECD PYGSLPVPCD PVTGFCRCP GATGRKCDGC KHHHAREGWE CVFCGDECTG LLLGDLARLE QMVMISINLTG PLPAPYKMLY GLENMTQELK HLLSPORAPE RLIQLAEGNL NTLVTEMNEL LTRATKVTAD GEQTGQDAER TNTRAKSLGE FIKELARDAE AVNEKAIKLN ETGLTRDEAF ERNLEGLQKE IDQMIKELRR KNLETQKEIA EDELVAEAL LKKVKLFGS SRGENEEMEK DLRKLDADYK NKVDDAWDLL REATDKIREA NRLFAVNQKN MTALEKKKEA VESGKRQIEN TLKEGNDILD EARNRLADEIN SIIDYVEDIQ TKLPPMSEEL NDKIDDLISQE IKDRKLAERV

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
8	Elastin	<p> SQAESHAQL NDSSAVLDGI LDEAKNISFN ATAAFKAYSN IKDYIDEAEK VAKEAKDLAH EATKLATGPR GLLKEDAKGC LQKSFRIINE AKKLANDVKE NEDHLNGLKT RIENADARNG DLLRTLNDTL GKLSAIPNDT AAKLQAVKDK ARQANDTAKD VLAQITELHQ NLDGLKKNYN KLADSVAKTN AVVKDPSKNK IIADADATVK NLEQEAADRLI DKLKPIKELE DNLKKNISEI KELINQARKQ ANSIKVSUSS GGDCIRTYKP EIKKGSYNNI VVNVKTAVAD NLLFYLGS AK FIDFLAIEMR KGKVSFLWDV GSGVGRVEYP DLTIDDSYWY RIVASRTGRN GTISVRALDG PKASIVPSTH HSTSPPGYTI LDVDANAMLF VGGLTGKLLK ADVRVITFT GCMGETYFDN KPIGLWNFRE KEGDCKGCTV SPQVEDSEGT ATRDLRDFMS VELTDGHIKV SYDLGSGMAS VVSNQNHNDG KWKSF TLSRI QKQANISIVD IDTNQEENIA TSSSGNNFGL DLKADDDKIYF GGLPTLRNLS MKARPEVNLK KYSGLCKDIE ISRTPYNILS SPDYVGVTGK CSLENVYTVS FPKPGFVELS PVPIDVGTEI NLSFSTKNES GIILLGSGGT PAPRRKRRO TGQAYYVILL NRGRLVHLS TGARTMRKIV IRPEPNLFHD GREHSVHVER TRGIFTVQVD ENRRYMQLT VEQPIEVKKL FVGGAPPEFQ PSPLRNIPPF EGCINNLVIN SVPMDFARPV SFKNADIGRC AHQKLEDED GAAPAEIVIQ PEPVPTPAPP TPTPVLTHGP CAAESEPAL IGSKQFGLSR NSHIAIAFDD TKVKNRLTIE LEVRTEAESG LLFYNAAINH ADFATVQLRN GLPYFSYDLG SGDTHTMIPT KINDGQWHKI KIMRSKQEGI LYVDGASNRT ISPKKADILD VVGMLYVGG L PINYTTRRIG PVTYSIDGCV RNLHMAEAPA DLEQPTSSFH VGTCEFANAQR GTYFDGTGFA KAVGGFKVGL DLLVEFEFAT TTTTGVL LGI SSQKMDGMGI EMIDEKLMFH VDNAGAGRFTA VYDAGVPGHL CDGQWHKVT A NKIKHRIELT VDG NQVEAQS PNPASTSADT NDPVFVGGFP DDLKQFGLTT SIPFRGCIRS LKLTGTASH WRLILPRPWN MAGLTAAAPR PGVLLLLLSI LHPSRPGGVP GAIPGGVPGG VFYPGAGLGA LGGGALGPGG KPLKPVPGGL AGAGLGAGLG APPAVTFPGA LVPGGVADAA AAYKAAKAGA GLGGVPGVGG LGVSAGAVVP QPGAGVKPGK VPGVGLPGVY PGGVLPGARF PGVGLPGVP TGAGVKPKAP GVGGAPAGIP GVGPFGGPQP GVPLGYPIKA PKLPGGYGLP YTTGKLPGY GPGGWAGAAG KAGYPTGTGV GPQAAAAA KAAAKFGAGA AGVLPGVGGA </p>

9/15

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
9		GVPGVPGAIP GIGGIAGVGT PAAAAAAGAAA AKAAYGAAA GLVPGGPGFG PGVVGVPGAG VPGVGVPGAG IPVVPGAGIP GAAVPGVVSP EAAAKAAAKA AKYGARPGVG VGGIPTYGVG AGGPPGFGVG VGGIPGVAGV PSVGGVPGVG GVPGVGISPE AQAAAAAKAA KYGVGTPAAA AKAATAKAAQ FALLNLGLV PGVGVAPGVG VAPGVGVAPG VGLAPGVGVA PGVGVAPGVG VAPGIGPGGV AAAAKSAAKV AKAQLRAAA GLGAGIPGLG VGVGVPGLV GAGVPGLVG AGVPGFGAVP GALAAAKAAK YGAAVPGVLG GLGALGGVGI PGGVVGAGPA AAAAAKAAA KAAQFGLVGA AGLGGLGVGG LGVPGVGGLG GIPPAATAKA AKYGAAGLGG VLGAGAGQFPL GGVAARPGFG LSPIFPGGAC LGKACGRKRK
	Alpha-2 type IV collagen	MGRDQRAVAG PALRRWLLLG TVTVGFLAQS VLAGVKKFDV PCGGRDCSGG CQCYPEKGGR GQPGVPVGPQG YNGPPGLQGF PGLQKRKGDK GERGAPGVTG PKGDVGARGV SGFPGADGIP GHFGQGGPRG RPYDGCNGT QGDSPGQPP GSEGFTGPPG PQGPKGQKGE PYALPKEERD RYRGEPEPG LVGFQGGPPGR PGHVGMMPV GAPRPGPPG PPGPKGQQGN RGLGFYGVKG EKGDVGQPGP NGIPSDTLHP IIAPTGVTFH PDQYKGEKGS EGEPGIRGIS LKGEEGIMGF PGLRGYPGLS GEKGSQKGG SRGLDGYQGP DGPRGPKGEA GDPGPPGLPA YSPHPSLAKG ARGDPGPPGA QCEPGSQGEP GDPGLPGPPG LSIGDGDQRR GLPGEMGPKG FIGDPGIPAL YGGPPGPDGK RPPGPPGLP GPPGPDGFLF GLKGAKGRAG FPGLPGSPGA RGPKGWKGDA GECRCGEGDE AIKGLPLPG PKGFAGINGE PGRKGDKGGP GQHGLPGFPG LKGVPGNIGA PGPKGAKGDS RTITTKGERG QPGVPGVPGM KGDDGSPGRD GLDGFPGLPG PPGDGIKGPP GDPGYPGIPG TKGTPGEMGP PGLGLPGLKG QRGFPGDAGL PGPPGFLGPP GPAGTPGQID CDTDVKRAVG GDRQEAIQPG CIAGPKGLPG LPGPPGPTGA KGLRGIPGFA GADGGPGPRG LPGDAGREGF PGPPGFIGPR GSKGAVGLPG PDGSPGPIGL PGPDGPPGER GLPGEVLGAQ PGPRGDAGVP GQPLKGLPG DRGPPGFRGS QGMPGMPGLK GQPLPGPSG QPGLYGPPGL HGFPAGPQE GPLGLPGIPG REGLPGRGD PGDTGAPGPV GMKGLSGDRG DAGFTGEQGH PGSPGFKGID GMPGTPGLKG DRGSPGMDGF QGMPGLKGRP GFPGSKGEAG FFGIPGLKGL AGEFGFKGSR GDPGPPGPPP

10/15

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
		VILPGMKDIK GEKGDEGPMG LKGYLGAKGI QCMPIGPGLS GIPGLPGRPG HIKGVKGDIG VPGIPGLPGF PGVAGPPGIT GPPGFIGSRG DKGAPGRAGL YGEIGATGDF GDIGDTINLP GRPGLKGERG TTGIPGLKGF PGEKGTEGDI GPPGITGVTG VQGPPLKGGQ TGFPGLTGPV GSQGEIGRIG LPGAAGDDGW PGAPGLPGFP GLRGIRGLHG LPGAAGFPGS PGSDIHGDPG FPGPPGERGD PGEANTLPGP VGVPGQKGDQ GAPGERGPPG SPGLQGPPGI TPPSNISGAP GDKGAPGIFG LKGYRQPPGP PGSAALPGSK GDTGNPGAPG TPGTKGWAGD SGPQGRPGVF GLPGEKGRG EQGFMGNTGP TGAVGDRGPK GPKGDPGFPV AGTVGAPGI AGIPQKIAIQ PGTVGPQGRR GPPGAPGEIG PQGPPGEPGF RGAPGKAGPQ GRGVSAPVG FRGDEGPIGH QGPIGQEGAP GRPGSPGLPG MPGRSVSIGY LLVKHSQTDQ EPMCFVGMNK LWSGYSLLYF EGQEKAHNOD LGLAGSCLAR FSTMPFLYCN PGDVCCYYASR NDKSYWLSTT APLPMPFVAE DEIKPYISRC SVCEAPAIAI AVHSQDVSI HCPAGWRSNW IGYSEFLMHTA AGDEGGGQSL VSPGSCLEDF RATPFIECNG GRGTCHYYAN KYSEFWLTIP EQSFQGPSA DTLKAGLIRT HISRCQVCMK NL
10	p27	MEASALTSSA VTSVAKVVRV ASGSAVVLPL ARIATVVIGG VVMAAAMPV LSAMGFTAAG IASSSIAAKM MSAAAANGG GVASGSLVGT LQSLGATGLS GLTKFILGSI GSAIAAVIAR FY
11	Reticulocalbin	MARGGRGRL GLALGLLAL VLAPRVLRK PTVRKERVVR PDSELGERPP EDNQSFQYDH EAFLGKEDSK TFDQLTPDES KERLGKIVDR IDNDGDGFVT TEELKTWIKR VQKRYIFDNV AKVWKDYDRD KODKISWEEY KQATYGYLNG NPAEFHDSSD HHTFKKMLPR DERRFKAADL NGDLTATREE FTAFLHPEEF EHMKEIVVLE TLEDIDKNGD GFVDQDEYIA DMFSHEENG PPDWVLSERE QFNEFRDLNK DGKLDKDEIR HHILPQDYDH AQAEARHLVY ESDKNKDEKL TKEEILENWN MFVGSQATNY GEDLTKNIDE L
12	Aldehyde dehydrogenase 6	MATANGAVEN GQPDGKPPAL PRPARNLEVK FTKIFINNEW HESKSGKKA TCNPSTREQI CEVEGDKPD VDKAVEAAQV AFQSGSPWR LDALSRGRL HQLADLVERD RATLAALETM DTGKPFLLHAF FIDLEGCIPT

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

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Seq.IDNO	Name	Proteinsequenz
13	Gravin	<p>LRYFAGWADK IQGKTIPTDD NVVCFTRHEP IGVCGAITPW NFPLLMLVMK LAPALCCGNT MULKPAREQTP</p> <p>LTALYLGSLI KEAGFPFPGVV NIVPGFGPTV GAAISSHPQI NKIAFTGSTE VGKLVKEAAS RSNLKRVTLE</p> <p>LGGKNPCIVC ADADLDLAVE CAHQGVFFNQ GQCCTAASRV FVEEQVYSEF VRRSVEYAKK RPYGDPFDDVK</p> <p>TEQGPQIDQK QFDKILELIE SGKKEGAKLE CGGSAMEDKG LFIKPTVFSE VTDNMRIAKE EIFGPVQPIL</p> <p>KFKSIEEVIV RANSTDYGLT AAVFTKNLDK ALKIASALES GTVWINCYNALYAQAPFGGF KMSGNGRELG</p> <p>EYALAEYTEV KTVTIKLGDK NP</p> <p>MGAGSSTEQR SPEQPPEGSS TPAEPEPSGG GPSAEEAPDT TADPAIAASD PATKLLQKNG QLSTINGVAE</p> <p>QDELSLQEGD LNGQKGALNG QGALNSQEEE EVIVTEVGQR DSEDVSEKDS DENATKSAV VHDITDDGQE</p> <p>ENRNIEQIPS SESNLEELTQ PTESQANDIG FKKVFKFVGF KFTVKKDKTE KPDTVQLLTV KKDEGEAGAAG</p> <p>AGDHQDPSLG AGEAAASKES PKQSTKEPEE TLKREQSHAE ISPPAESGQA VEECKEEGEE KOEKEPSKSA</p> <p>ESPTSPVTSE TGSTFFKKFFT QGWAGWRKKT SFRPKKEDEV EASEKKKEQE PEKVDTEEDG KAEVASEKLT</p> <p>ASEQAHPQEP AESAHEPRLS AEYKVELPS EEQVSGSQGP SEEKPAPLAT EVFDEKIEVH QEEVVAEVHV</p> <p>STVEERTEEQ KTEVEETAGS VPAAEELVGMD AEPQEAEPK ELVKKLTCV SGEDPTQAD LSPDEKVLK</p> <p>PPEGVVSEVE MLSSQERMKV QGSPLKLLFT STGLKKLSGK KQKGRGGGD EESGEHTQVP ADSPDSQEEQ</p> <p>KGESSASSPE EPPEITCLEK GLAEVQQDGE AEGATSDGE KKREGVTPWA SFKKMVTPKK RVRPSPESDK</p> <p>EDELKVKSA TSSSTESTAS EMQEMKGSV EEPKPEEPKR KVDTSVSWEA LICVSSSKR ARRRSSSDEE</p> <p>GGPKAMGGDH QKADEAGKDK ETGTDGILAG SQEHDPGQGS SSPEQAGSPT EGEVSTWES FKRLVTTPRKK</p> <p>SKSKLEEKSE DSIAGSGVEH STPDTEPGKE ESWVSICKFI PGRKKRPPDG KQEQAPVEDA GPTGANEDDS</p> <p>DVPVAVPLSE YDAVEREKME AQQAQKGAEQ PEQKAATEVS KELSSESQVHM MAAAVADGTR AATIIERSP</p> <p>SWISASVTEP LEQVEAEAL LTEEVLREV IAEEEEPTVT EPLPENREAR GDTVVSEAEEL TPEAVTAAET</p> <p>AGPLGSEGT EASAAEETTE MVSAVSQLTD SPDTTEEATP VQVEGGVDP IEEQERRTOE VLQAVAEKVK</p>

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

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Seq.IDNO	Name	Proteinsequenz
		EESQLPGTGG PEDVLQPVQR AEAEERPEEQE EASGLKKETD VVLKVDAQEA KTEPFTQGV VQQTTPESFE KAPQVTESIE SSELVTTCA ETLGVKSQE MVMEQAIPPD SVETPTDSET DGSTPVADFD APGTTQKDEI VEIHEENEVA SGTQSGGTEA EAVPAQKERP PAPSSPVFQE ETKEQSKMED TLEHTDKEVS VETVSILSKT EGTQEADQYA DEKTKDVPPF EGLEGSIDTG ITVSREKYTE VALKGEETEE AECKKDDALE LQSHAKSPPS PVEREMVVQV EREKTEAEPT HVNEEKLHE TAVTVSEEV KQLLQTVNVP IIDGAKEVSS LEGSPPPCLG QEEAVCTKI QVQSSEASFTL TAAAEKVKL GETANILETG ETLTPAGAH VLEEKSEKN EDFAAHPGED AVPTGPDCA KSTPVIVSAT TKKGLSSDLE GEKTTSLKWK SDEVDEQVAC QEVKVSVAIE DLEPENGILE LETKSSKLQ NIIQTAVDQF VRTEETATEM LTSELQTOAH VIKADSQDAG QETEKEGEER QASAQDETPI TSAKEEEST AVGOAHSDIS KDMSEASEKT MTVEVEGSTV NDQOLEEVVL PSEEEGGAG TKSVPEDDGH ALLAERIEKS LVEPKEDEKG DDVDDPENQN SALADTDASG GLTKESPDN GPQKEKEDA QEVELQEGKV HSESDKAITP QAQELQKQE RESAKSELTE S
14	Nidogen	MLASSRIRA ANTRALLPL LLAGPVGCLS ROELFFPGPG QGDLELEDGD DFVSPALELS GALRFYDRSD IDAVVVTNG IATSEPPAK ESHPGLPPT FGAVAPFLAD LDTTDGLGV YREDLSPSI TQRAAECVHR GFPEISFQPS SAVVTWESV APYQGPSRDP DQGKRNTFQ AVLASSDSSS YAIFLYPEDG LQFHTTFSKK ENNQVPAVVA FSQGSVGFLW KSNAYNIFA NDRESIENLA KSSNSGQGV WVFEIGSPAT TNGVVVPADVI LGTEDEGAEYD DEDEDYDLAT TRLGLEDVGT TPFSYKALRR GGADTYSVPS VLSPPRAATE RPLGPPPTERT RSFQLAVETF HQHPQVIDV DEVEETGVVF SYNTDSRQTC ANNRHQCSVH AECDYATGF CCSCVAGYTG NGRQCVAEGS PORVNGKVG RIFVGSSQVP IVFENTDLHS YVVMNHGRSY TAISTIPETV GYSLPLPLAPV GGIIGWMAV EQDGFKNQGS ITGGEFTRQA EVTFVGHPGN LVIKQRFSGI DEHGLTIDT ELEGRVPQIP

Figure 2

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

[Key to Table:]

Proteinsequenz = Protein Sequence

Abbildung 2

Seq.IDNO	Name	Proteinsequenz
15	Phospholipase Epsilon	FGSSVHIEPY TELYHYSTSV ITSSSTREYT VTEPERDGAS PSRIITYQWR QTITFQECVH DDSRPALPST QQLSVDSVFV LYNQBEKILR YAFNSISGPV REGSPDALQN PCYIGTHGCD TNAACRPGPR TQFTCECSIG FRGDGRTCYD IDECEQPSV CGSHTICNNH PGTFRCECVE GYQFSDEGTC VAVVDQRPIN YCETGLHNCN IPQRAQCIYT GSSSYTCACL PGFSGDQAC QDVDECQPSR CHIPDAFCYNT PGSFTCQCKP GYQGDGFRVCV PGEVEKTRCQ HEREHILGAA GATDPQRPPI PGLFVPECEA HGHYAPTQCH GSTGYCWCVD RDGREVEGTR TRPGMTPPCL STVAPPPIHQG PAVPTAVIPL PPGTHLLFAQ TGKIERLPLE GNTMRKTEAK AFLHVPKAVI IGLAFDCVDK MVYWTDITEP SIGRASLHGG EPTTIIRQDL GSPEGIAVDH LGRNIFWTDS NLDRIEVAKL DGTQRRVLFE TDLVNPRGIV TDSVRGNLYW TDWNRDNPKE ETSYMDGTNR RILVQDDLGL PNGLHFDAPS SQLCWVDAGT NRAECLNPSQ PSRRKALEGL QYFFAVTSYG KNLYFTDWM NSVVVALDLAI SKETDAFQPH KQTRLYGITT ALSQCPOGHN YCSVNNGGCT HLCLATPGSR TCRCPDNTLG VDCIERK MPSEKKISSA NDCISFMQAG CELKKVRPNS RIYNRFFFTLD TDLQALRWEF SKKDLEKAKL DISAIKEIRL GKNTETFTNN GLADQICEDC AFSILHGENY ESLDLVANSA DVANIWVSG LRYLVSRSKOP LDFMEGNQNT PRFNWLKTVF EAADVDGNGI MLEDTSVELI KQLNPTLKEA KIRLKFEIQ KSKEKLTTTRV TEEEFCEAFC ELCTRPEVVF LLVQISKKE YLDANDLMLF LEAEQGVTHI TEDICLDIIR RYELSEEGRO KGFLAIDGFT QYLLSSECDI FDPPEQKVAQ DMTQPLSHYY INASHNTYLI EDQFRGPADI NGYIRALKMG CRSVELDVSD GSDNEPILCN RNNMTTHVSF RSVIEVINKF AFVASEYPLI LCLGNHCSLP QOKVMAQQMK KVFGNKLYTE APLPSESYLP SPEKLKRMII VKGKKLPSPD DVLEGEVTDE DEEAQMSRRM SVDYNGEQKQ IRLCRELSDL VSICKSVQYR DFELSMKSN YWEMCSFSET EASRIANEYP EDFVYNKKF LSRIYPSAMR IDSSNLPQD FWNCGCQIVA MNFQTPGPM DLHTGWFLQN GCGGYVLRPS IMRDEVSYFS ANTKGILPGV SPLALHIKII SGQNFPPKPG ACAKGDVIDP YVCIEIHGIP ADCSEORTKT VQONSNDNPIF DETFEFQVNL PELAMIRFVV LDDDYIGDEF IGQYTIPFEC LOPGYRHVPL RSFVGDIMEH VTLFVHIAIT NRSGGGKAQK RSLSVRMGKK

Figure 2

[Key to Table:]

Proteinsequenz = Protein Sequence

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Seq.IDNO	Name	Proteinsequenz
		VREYTLRNI GLKTIDDDIFK IAVHPLREAI DMRENMQNAI VSIKELCGLP PIASLKQCCLL TISSRLITS NTPSVSLVMK DSFPYLEPLG AIPDVQKKML TAYDLMIQES RFLIEMADTV QEKIVQCQKA GMEPFHEELHN LGAK EGLKGR KLNKATESFA WNITVLKGQG DLLKNKNEA IENMKQIQLA CLSCGLSKAP SSSAEAKSKR SLEAIEEKES SEENGKL

Figure 2

[Key to Table:]

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